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## Amendments to the Claims

(currently amended) A method for computer-assisted medical navigation or pre-operative treatment planning, said method comprising:

detecting a position of a patient or a part of a patient's body;

detecting positions of medical treatment devices or treatment-assisting devices;

creating patient-specific body structure data, the body structure data being
adapted from a three-dimensional generic model: and

assigning the detected positions to the body structure data, said body structure data being obtained from a three-dimensional generic model.

- (original) The method as set forth in claim 1, further comprising: adapting the three-dimensional generic model by data linking with patientcharacteristic. two-dimensional detection data.
  - (currently amended) The method as set forth in claim 1, further comprising:

jointly using the body structure data in and assignment with the detected positional data within the context of assisting the navigation or treatment planning.

- (original) The method as set forth in claim 1, wherein the body structure data is provided in the form of a tomographic image data set.
- 5. (original) The method as set forth in claim 1, wherein the generic model includes at least one of (i) a typical or average body structure; (ii) a statistical model of said body structure based on statistical evaluations of an indefinite number of image data sets; (iii) a multitude of body structures of the same type; and (iv) a two- or three-dimensional data set of a body structure and a geometric model.

- (original) The method as set forth in claim 2, wherein the
  patient-characteristic data is diagnostic data obtained from the patient, which includes
  at least one of:
- (i) x-ray image data from bi-planar or multi-planar x-ray images produced before or during treatment;
  - (ii) computer tomography or nuclear spin tomography image data;
  - (iii) digitally reconstructed x-ray image data;
  - (iv) acquired point-positional information of the patient's body structure; and
- (v) data on size, weight or lengths of the body section or one or more limbs of the patient.
- (original) The method as set forth in claim 6, wherein the acquired point-positional information of the patient's body structure includes natural or artificial landmarks
- 8. (original) The method as set forth in claim 2, wherein adapting the threedimensional generic model includes:

manually adapting with the assistance of image representation.

- 9. (original) The method as set forth in claim 8, wherein the manually adapting includes one of (i) offsetting points and landmarks on a screen output using a user-interface means, and (ii) shifting, rotating, stretching or compressing the generic model on a screen output using a user-interface means.
- (original) The method as set forth in claim 2, wherein adapting the threedimensional generic model includes:

automatic image fusion by automatically identifying particular anatomical features

11. (original) The method as set forth in claim 2, wherein adapting the threedimensional generic model includes:

registering and/or fusing digitally reconstructed x-ray images of the generic model and digitally reconstructed x-ray images from computer tomography or nuclear spin tomography image data sets: and

calculating the adapted body structure data using computer-assistance.

12. (original) The method as set forth in claim 3, said method including: obtaining positional data while determining patient-characteristic detection data, said obtaining including at least one of (i) acquiring landmark positions, and (ii) registering x-ray imaging in a navigation system;

using the obtained positional data to register the adapted body structure data in a navigation system, and visually displaying or using treatment devices or treatment-assisting devices in their registration to the adapted body structure.

 (original) The method as set forth in claim 2, further comprising: superimposing the three-dimensional generic model with patient-specific x-ray images; and

adapting a projection of the model to the respective x-ray images.

- 14. (currently amended) The method as set forth in claim 13, wherein projecting anatomic landmarks or geometries projected into the patient-specific x-ray images is are automatically or manually identified, and projecting projected model structures is are adapted to the two-dimensionally identified landmarks.
- 15. (original) The method as set forth in claim 14, wherein the model is adapted using a transformation guideline which also enables information stored in the model to be appropriately modified, such that a data set of the patient consisting of tomographic images can be used for navigation.

- 16. (original) The method as set forth in claim 15, further comprising: displaying the patient data set as a digital reconstructed radiograph (DRR); and comparing the patient data set with the patient-specific data to automatically or manually verify the model.
- 17. (original) The method as set forth in claim 16, wherein the image data set is adapted by way of superimposing patient-specific x-ray images which represent a two-dimensional summation image from a defined direction of projection, and projecting the three-dimensional generic model onto said summation image.
- 18. (original) The method as set forth in claim 17, wherein a deforming and rotating guideline obtained for the model is applied to the information stored in the model, to generate a three-dimensional image data set or to deform an already existing image data set with the aid of said guideline.
- 19. (currently amended) A <u>computer</u> program <del>which, when running on a computer or wherein when the program is</del> loaded <del>on into</del> a <u>memory of a computer and executed, causes the computer to carry <del>carries</del> out the steps of:</u>

detecting a position of a patient or a part of a patient's body;
detecting positions of medical treatment devices or treatment-assisting devices;
creating patient-specific body structure data, the body structure data being
adapted from a three-dimensional generic model; and

assigning the detected positions to the body structure data, said body structure data being obtained from a three-dimensional generic model.

- 20. (cancelled)
- 21. (New) The method as set forth in claim 2, wherein adapting the three-dimensional generic model includes:

registering and/or fusing digitally reconstructed x-ray images of the generic model with intra- or pre-operative x-ray images to obtain adapted body structure data; and

calculating the adapted body structure data using computer-assistance.

 (New) The method as set forth in claim 2, further comprising: superimposing patient-specific x-ray images with the three-dimensional generic model; and

adapting a projection of the model to the respective x-ray images.

23. (New) The method as set forth in claim 17, wherein a deforming, rotating, and translational guideline obtained for the model is applied to the information stored in the model, to generate a three-dimensional image data set or to deform an already existing image data set with the aid of said guideline.